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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/531,531	12/19/2005	Brian Graham	13801US	9102
24116 RATTELLE M	7590 09/06/2007 MEMORIAL INSTITUTE	EXAMINER		
505 KING AV	ENUE	KELLY, ROBERT M		
COLUMBUS,	OH 43201-2693		ART UNIT	PAPER NUMBER
			1633	
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			09/06/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Diffice Action Summary		Application No.	Applicant(s)	A STATE OF THE STA
Robert M. Kelly 1933 The MAILING DATE of this communication appears on the cover sheet with the correspondence address -		10/531,531	GRAHAM ET AL	,所谓,凡人
Prior for MALING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. **Catheroids for them the value indicate inverte the previous of 37 CPR 1736(b). In or event, mover, may a reply be lembly fled if NO period for input is addressed above, the maintum statutory period will apply and will expire 3X (5) MONTHS from the mainting date of the communication. Faller to be recyvisheline best or extraordisplaced for reply will be statute. See 17 CPR 1704(b). **Status** 1) □ Responsive to communication(s) filled on 19 December 2005 2a □ This action is FINAL. 2b □ This action is FinAL. 2b □ This action is condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. **Disposition of Claims** 4) □ Claim(s)	Office Action Summary	Examiner	Art Unit	•
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Art Unit: 1633

DETAILED ACTION

Claims 1-33, 36-47, and 49-56 are presently pending.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 7 and 14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 7 recites "creating by a human". Such is so broad that it is not defined for its metes and bounds. For example, is the substance created by a human's excretion, or is it a manual method of dispensing? The Artisan would not know what creative steps are required to create the substance, such that it would infringe on the claim.

Claim 14 is rejected for reciting "distributing ... upon a targeted area ... in accordance with the charge on the material". It is unclear how the charge accords a specific distribution.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 1633

Claims 1-3, 5-9, 12-32, 37-47, and 49-56 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Nos. 5,655,517 to Coffee, et al., 6,105,877 to Coffee, et al., 5,928,194 to Maget, and 4,334,504 to Matthews.

Coffee '517 teaches single-nozzle EHD delivery devices for delivery of substances by spray into the respiratory tract (e.g., ABSTRACT) and further, to avoid the lower respiratory tract of humans, particles should be 10 microns or above, and Coffee '877 teaches dual-nozzle devices for similar delivery of substances (e.g., ABSTRACT).

Maget '194 teaches a liquid spray dispenser for dispensing, *inter alia*, insecticides and therapeutics transdermally to horses (e.g., ABSTRACT, EXAMPLE 3).

Matthews '504 teaches an animal spraying apparatus, which applies liquids to the surface of the animal as it moves back and forth through the passageway (e.g., ABSTRACT).

Hence, at the time of invention, it would have been obvious to apply the Mathews '504 apparatus, in combination with the EHD delivery device(s) of Coffee, and do so to horses, as further taught in Matthews. Because the references teach similar methods of spraying animals to obtain various therapeutic and cosmetic alterations, it would have been obvious to the Artisan to utilize any combination of these elements to provide the predictable result of distributing one or more therapeutics and/or cosmetics to the animal without allowing the particles to enter the lower respiratory tract of humans.

With regard to the distribution and standard deviation requirements of Claim 8, because the mechanics of fluid flow, nozzle size, and the relation to droplet size are understood and controllable to the artisan (this is official notice), absent reason to believe otherwise, the Artisan would necessarily obtain such distributions, in order to deliver more uniform products.

Art Unit: 1633

With regard to the curved trajectories, the fluids are influenced by gravity, and hence achieve the same planar distribution along the curved surfaces of the animal. Still further, the wraparound effect is necessarily present (e.g., Applicant's FIGURE 2b).

With regard to avoiding dermatitis, etc., the Artisan would necessarily do so in order to avoid negatively affecting the animal.

With regard to alternating the discharges, and opposite charges, the Artisan would simply find such to be design choice, and alternating the charges would be obvious as it allows the dispersed substances to attract eachother on the surface of the animal.

With regard to the acoustic emission, the discharge of liquid necessarily would cause sound to be generated.

With regard to using a handheld device, the Artisan would also find such obvious, as it has been done at small farms for many years. E.g., horse owners have for many years applied sprays to control insects, mites, fungi, and other pests from growth on their horses, and they have no need for a large device, such as that of Matthews, and still further Applicant's own application admits that such applications are known in the prior art (e.g., FIGURE 1).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Art Unit: 1633

Claims 1-3, 5-33, 37-47, and 49-56 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Nos. 5,655,517 to Coffee, et al., 6,105,877 to Coffee, et al., 5,928,194 to Maget, and 4,334,504 to Matthews as applied to claims 1-3, 5-9, 12-32, 37-47, and 49-56 above, and further in view of U.S. Patent Nos. 6,029,610 to Ramsey, 6,130,253 to Franklin, et al., and 6,201,017 to Sembo.

As shown above, the Coffee, Maget and Matthews patents make obvious the various aspects of the previously-rejected claims, however, the do not make obvious the use of surfactant carriers or the use of a combination of a neonicotinoid and a pyrethroid.

On the other hand, Ramsey teaches washing animals in a similar device with shampoos which may include a surfactant (e.g., ABSTRACT; col. 3, paragraph 2).

Further, Sembo '017 teaches the use of ectoparasite controlling agents, which are neonicotinoids, for treatment of animals externally (e.g., ABSTRACT and col. 1, paragraph 5) and Franklin '253 teaches the use of pyrethroids for treatment of animals by inter alia sprays (e.g., ABSTRACT).

Hence, it would be obvious to include the shampoos of Ramsey at the same time and include the pyrethroids and neonicotinoids of Sembo and Franklin. The Artisan would have been motivated to do so in order to clean the animal. Moreover, the artisan would have expected success, as Ramsey, Sembo and Franklin teach that it can be done this way to clean the animals.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

Art Unit: 1633

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-9, 12-22, 41-46 and 52 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent Nos. 5,655,517 to Coffee, et al., 6,105,877 to Coffee, et al., 5,928,194 to Maget, and 4,334,504 to Matthews as applied to claims 1-3, 5-9, 12-32, 37-47, and 49-56 above, and further in view of U.S. Patent No. 6,302,331 to Dvorsky.

As shown above, the Coffee, Maget and Matthews patents make obvious the various aspects of the previously-rejected claims, however, the do not make obvious the use of an EHD device to deliver an uncharged particle.

On the other hand, Dvorsky teaches the use of such to deliver uncharged particles (e.g., col. 4, paragraph 3).

Hence, at the time of invention, it would have been obvious to further modify the methods to deliver an uncharged particle via EHD. The Artisan would have done so, as it is merely one of design choice. Moreover, the artisan would have had a reasonable expectation of success, as Dvorsky teaches it can be done.

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225

Art Unit: 1633

USPQ 645 (Fed. Cir. 1985); In re Van Ornum, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); In re Vogel, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and In re Thorington, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

As there are many rejections under this category, the rejections will be further explained after a summary of each rejection.

Claims 1-33, 36-47, and 49-56 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-13 of U.S. Patent No. 5,655,517 in view of U.S. Patent Nos. 5,655,517 to Coffee, et al., 6,105,877 to Coffee, et al., 5,928,194 to Maget, and 4,334,504 to Matthews, and/or further in view of U.S. Patent Nos. 6,029,610 to Ramsey, 6,130,253 to Franklin, et al., and 6,201,017 to Sembo and or further in view of U.S. Patent No. 6,302,331 to Dvorsky.

Claims 1-33, 36-47, and 49-56 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-15 of U.S. Patent No. 5,813,614 in view of U.S. Patent Nos. 5,655,517 to Coffee, et al., 6,105,877 to Coffee, et al., 5,928,194 to Maget, and 4,334,504 to Matthews, and/or further in view of U.S. Patent Nos. 6,029,610 to Ramsey, 6,130,253 to Franklin, et al., and 6,201,017 to Sembo and or further in view of U.S. Patent No. 6,302,331 to Dvorsky.

Art Unit: 1633

Claims 1-33, 36-47, and 49-56 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-13 of U.S. Patent No. 5,915,377 in view of U.S. Patent Nos. 5,655,517 to Coffee, et al., 6,105,877 to Coffee, et al., 5,928,194 to Maget, and 4,334,504 to Matthews, and/or further in view of U.S. Patent Nos. 6,029,610 to Ramsey, 6,130,253 to Franklin, et al., and 6,201,017 to Sembo and or further in view of U.S. Patent No. 6,302,331 to Dvorsky.

Claims 1-33, 36-47, and 49-56 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-7 of U.S. Patent No. 6,105,571 in view of U.S. Patent Nos. 5,655,517 to Coffee, et al., 6,105,877 to Coffee, et al., 5,928,194 to Maget, and 4,334,504 to Matthews, and/or further in view of U.S. Patent Nos. 6,029,610 to Ramsey, 6,130,253 to Franklin, et al., and 6,201,017 to Sembo and or further in view of U.S. Patent No. 6,302,331 to Dvorsky.

Claims 1-33, 36-47, and 49-56 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 24-26 of U.S. Patent No. 6,252,129 in view of U.S. Patent Nos. 5,655,517 to Coffee, et al., 6,105,877 to Coffee, et al., 5,928,194 to Maget, and 4,334,504 to Matthews, and/or further in view of U.S. Patent Nos. 6,029,610 to Ramsey, 6,130,253 to Franklin, et al., and 6,201,017 to Sembo and or further in view of U.S. Patent No. 6,302,331 to Dvorsky.

Claims 1-33, 36-47, and 49-56 are rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 1-15 of U.S. Patent No. 6,386195 in view of U.S. Patent Nos. 5,655,517 to Coffee, et al., 6,105,877 to Coffee, et al., 5,928,194 to Maget, and 4,334,504 to Matthews, and/or further in view of U.S. Patent Nos. 6,029,610 to

Art Unit: 1633

Ramsey, 6,130,253 to Franklin, et al., and 6,201,017 to Sembo and or further in view of U.S. Patent No. 6,302,331 to Dvorsky.

Claims 1-33, 36-47, and 49-56 are rejected on the ground of nonstatutory obviousness type double patenting as being unpatentable over claims 1-52 of U.S. Patent No. 6,595,208 in view of U.S. Patent Nos. 5,655,517 to Coffee, et al., 6,105,877 to Coffee, et al., 5,928,194 to Maget, and 4,334,504 to Matthews, and/or further in view of U.S. Patent Nos. 6,029,610 to Ramsey, 6,130,253 to Franklin, et al., and 6,201,017 to Sembo and or further in view of U.S. Patent No. 6,302,331 to Dvorsky.

As shown in the art rejections, the various aspects of the invention are already obvious, however, further, the various patents each claim specific EHD devices with particular characteristics. As such, it would have been obvious to modify the Art to provide the particular characteristics of any device claimed. Such is simply the substitution of a known part with an equivalent part for the predictable outcome of applying such substances topically to animals.

Conclusion

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert M. Kelly, Art Unit 1633, whose telephone number is (571) 272-0729. The examiner can normally be reached on M-F, 9:00am-5:00pm.

Art Unit: 1633

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Joseph Woitach can be reached on (571) 272-0739. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Robert M. Kelly, Ph.D. Examiner, USPTO, AU 1633 Patents Hoteling Program Mailbox 2C70, Remsen Building (571) 272-0729